Handset Color Video Intercom System

M1607BCR

USER MANUAL V2.96

CONTENTS

COVER	P1
CONTENT	*P2*
INDOOR MONITOR	*P3*
FEATURES	*P3*
BASICF EATURES	*P3*
EXTRA FUNTIONS	P3
SUPPORT SOLUTIONS	P3
SPECIFICATION	*P4*
DESCRIPTION OF MONITOR(FRONT)	*P5*
DESCRIPTION OF MONTOR(REAR)	*P6*
INSTALLATION GUIDE	*P7*
CAUTION	*P7*
DIAGRAM	*P8~P10*
SINGLE MONITOR AND DOORBELL INSTALLATION	*P11*
CABLE SPECIFICATION	*P12*
OPERATION GUIDE	*P13*
KEY OPERATIONS	*P14*
TOUCH SCREEN OPETATION	*P14~P16*
THE TERMINAL	*P17*
MENU SETTING OPERATION	*P17* ~P21
PARAMETERS	*P22* ~P23
HOW TO LEAVE MESSAGES FROM DOORBELL(S)	P24
HOW TO CHANGE ATTENTION TONE FOR LEAVING MESSAGE	P24~P25

INDOOR MONITOR

FEATURES

- 7 " TFT LCD
- Touch Screen
- Hand set
- Surface-mounted
- Built-in power supply

BASIC FUNCTIONS

- Capture over 64 images with internal flash
- Support room-to-room internal communication
- Support door call transfer to the other indoor monitors
- Support broadcasting to the other indoor monitors
- Support capturing pictures from doorbell automatically

EXTRA FUNTIONS

- Support SD card(optional)
- Support DVR function with SD card
- Support saving images, video& audio with SD card
- Support recording videos &audio from doorbells with SD card
- Support answer machine function
- Support Multimedia and photo frame
- Support changing background pictures

SUPPORT SOLUTIONS

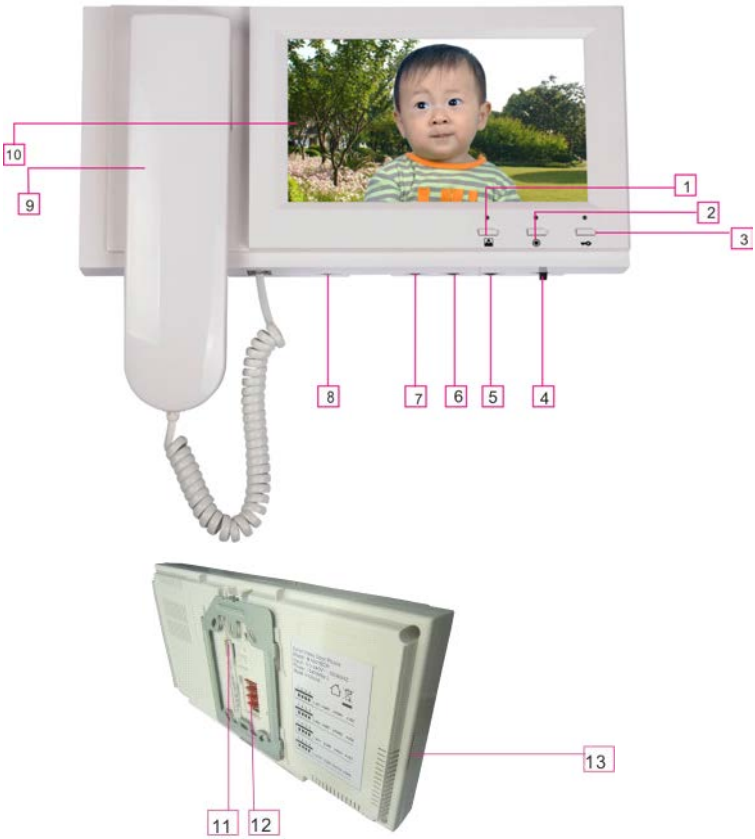
- Solution 1: 2 doorbells + 4 monitors + 2 CCTV cameras
- Solution 2: 1 doorbell + 4monitors + 3 CCTV cameras

Note: each salve monitor can add two extra CCTV independently

SPECIFICATION

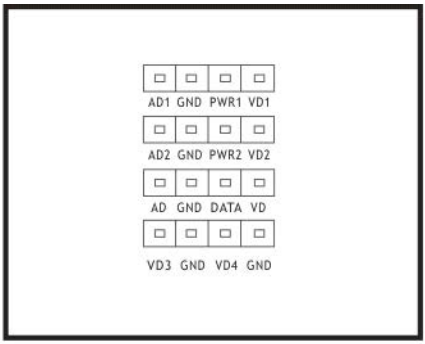
Display screen	7 " Digital TFT
Resolution	>480TV lines
Connection/Length	4 wires/100m
Power Supply	AC110-240V/50-60Hz
Audio Impedance	300 Ohm
Video Impedance	75 Ohm
Video Type	NTSC/PAL
External Memory Card SD	up to 32 GB
Operating Temperature	-10℃ to + 60℃
Dimension	285*140*46mm

DESCRIPTION OF MONITOR(FRONT)



1. Answer /Monitor Key
2. Call Transfer Key
3. Unlock Key
4. Power ON/OFF
5. Color Adjustment Key
6. Contrast Adjustment Key
7. Brightness Adjustment Key
8. Volume Adjustment Key
9. Handset
10. Digital 7"TFT LCD Screen
11. Power Cable
12. Terminals
13. SD Card Slot

DESCRIPTION OF MONTOR(REAR)



Block for Doorbell1

VD 1: Video
PWR1: Power
GND : Ground
AD 1: Audio

Block for Doorbell2

VD 2: Video
PWR2: Power
GND : Ground
AD 2: Audio

Block for connecting other monitors

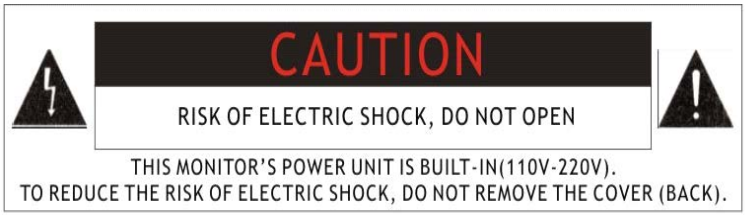
VD : Video
DATA: Data
GND : Ground
AD : Audio

Block for CCTV

GND:Ground
VD4: CCTV2
GND: Ground
VD3:CCTV1

INSTALLATION GUIDE

CAUTION


CAUTION
RISK OF ELECTRIC SHOCK, DO NOT OPEN
THIS MONITOR'S POWER UNIT IS BUILT-IN(110V-220V).
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (BACK).

Graphic Symbol Explanation:

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated `dangerous voltage` within the product`s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating maintenance servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE

DIAGRAM

DIAGRAM 1(1 MONITORS, 1 DOORBELL)

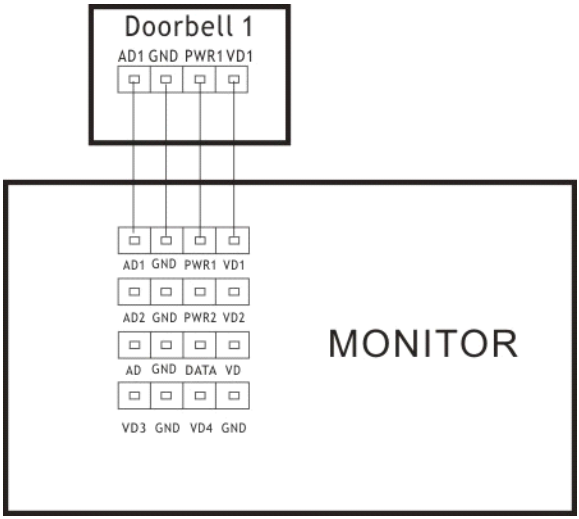
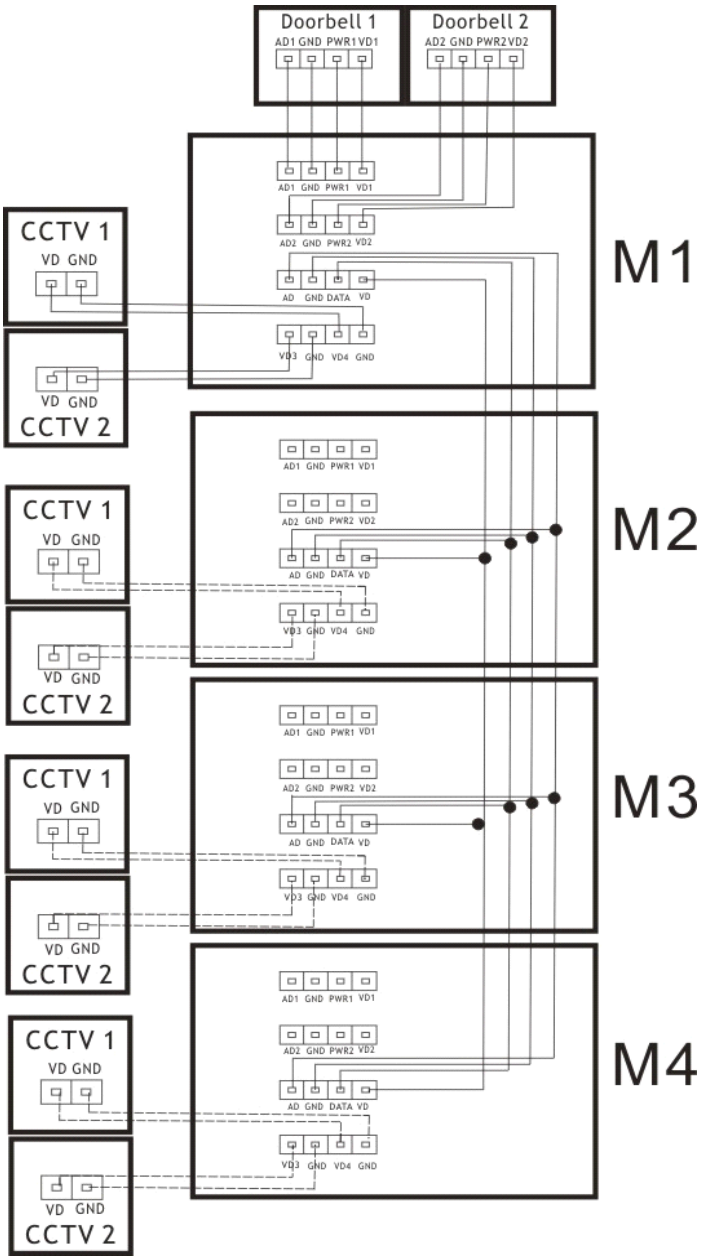
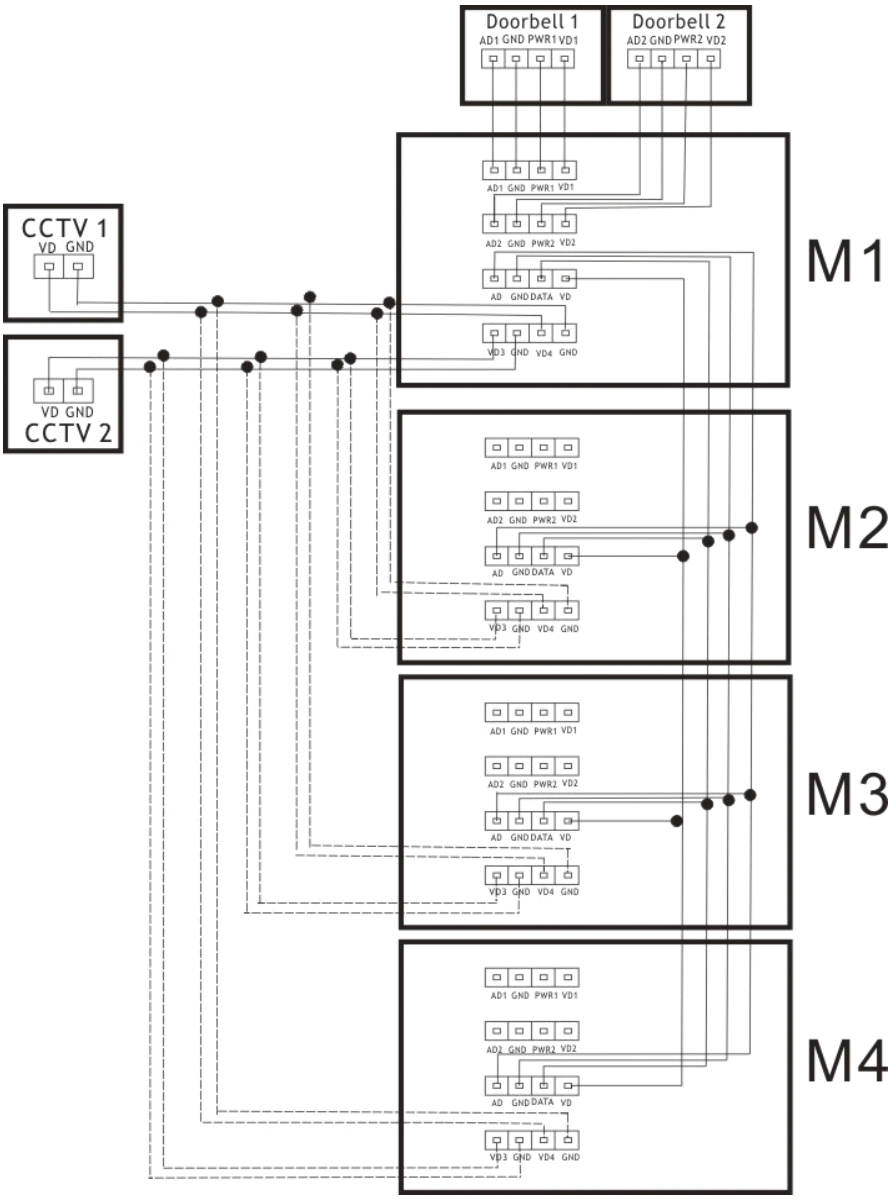


DIAGRAM2 (2 MONITORS, 2 DOORBELLS, 2~8 CCTV CAMERA)



Each machine can only monitor 2 CCTV cameras which are connected with it.

DIAGRAM3(2 MONITORS, 2 DOORBELLS, 2 CCTV CAMERA)



If 2 CCTV cameras are connected with all slave monitors like the dash line, then all mac hines can monitor them.

Installation Instructions

Refer to relevant wiring diagram for the system you have chosen and ensure you have the correct cable.

Determine Monitor positions and heights:

-suggest to install at 1.5~1.6Meters;

-suggest distance between indoor monitor and doorbell is at least 350 mm;

Unplug the connection terminal from the back of the monitor.

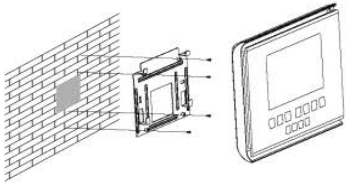
Ensure no power supply connection.

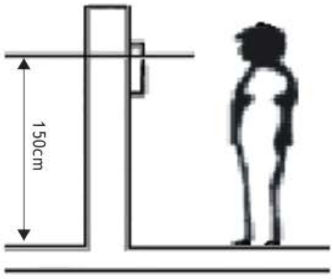
Connect cables as per the wiring diagram indicated.

Remove top and bottom facia trim for mounting points.

Fix the monitor onto the bracket.

Connect power when doorbell is installed.





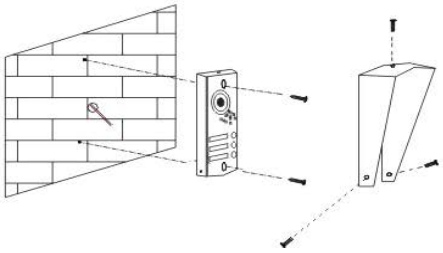
Please select the most suitable doorbell position, avoid direct sunshine to camera, dark surroundings, rain.

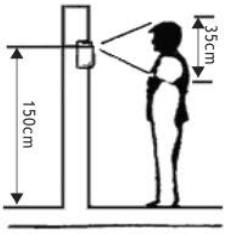
Determine doorbell installation height: suggest to be1.5~1.6meters.

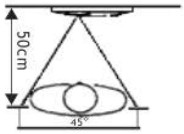
Run cable through the doorbell mounting plate.

Connect cable to doorbell as system wiring diagram indicated.

Fasten doorbell onto its mounting plate and secure doorbell with screws.



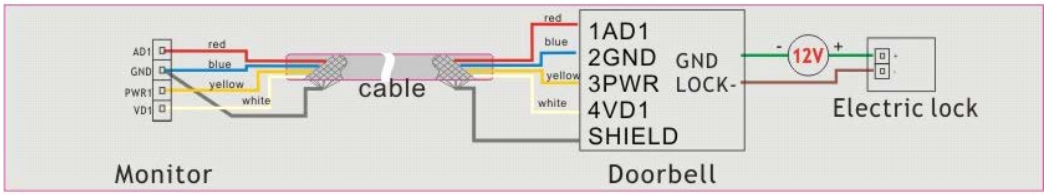




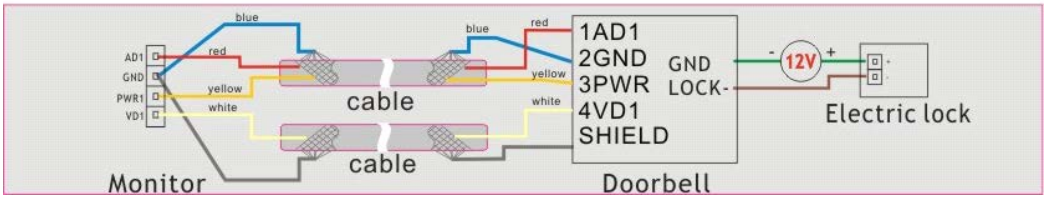
CABLE SPECIFICATION

When signal is from monitor , cable specification is:

•Distance between monitor and door station is less than 30 meters ,shielded 4*0.5mm² cable is available;



•Distance exceed 30 meters, please choose SYV-75-3 coaxial cable for video with another shielded 2*0.5mm² cable or professional cable SYV-75-3 +RVVP 2*0.5(recommend)



OPERATION GUIDE

Key Operation

a) Three buttons in total

b) **Answer Key**

i. At standby or monitor state, press this button to enter the monitor state or switch to monitor channels

ii. In Multimedia and system setting interface , is for selecting or adjusting （Go up or Decrease）

c) **Intercom/ Transfer Key**

i. At standby or answering state, press this key to enter the call transfer state

ii. In Multimedia Manager and System Setting, this button is for the selection and adjustment(Move down or Increase）

d) **Unlock Key**

i. When answering or monitoring the doorbell ,press it to unlock the door

ii. At standby state , long press to enter System Setting

iii. When the system display boot screen, long press can enter the Advanced Setting

iv. If there is upgrade file in the inserted SD, long press can enter the upgrade option interface

v. In the Multimedia and System Setting state, long press can back to the last menu. Keep pressing it ,the system back to the past menu gradually

a) **Action Types**

i. The system support five kinds of action types

ii.

1. Click: choose, enter
2. Left Slide: return, show main menu(at standby model),page down(in multimedia manager)
3. Right Slide: page down(in multimedia manager), show menu(slide at the bottom of the 1/3 screen in multimedia manager state)
4. Up Slide: page down
5. Down Slide: page up

iii. On the bottom of any interface in the system ,Left Slide can back to the last menu

1. NOTE:
   a) When play pictures and videos ,clicking can back to the last menu similarly
   b) Left slide at other interface also can return to the last menu ,not required slip at the bottom of the touch screen

iv. At the following interface in Multimedia, right slide at the bottom of the screen, a menu will play appropriately

1.

Move up Delete Move down

2.

Move up Play Delete Move down

3.

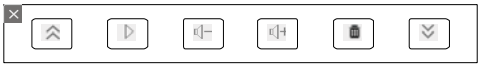
Return Page up Page down

4.

Return; Last video; Speed down; Play/ PausE; Speed up; Volume Decrease; Volume Increase; Next video

5.

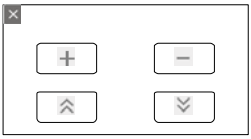
Return; Last video; Speed down; Play/Pause; Speed up; Volume Decrease; Volume Increase; Next video

6. 

a).The last one; Play/Pause; Volume Decrease; Volume Increase; Delete; The next one

b).The last one; Play/Pause; Volume Decrease; Volume Increase; Tone setting for auto leaving message; The next one

v. In the system setting state, click the setting contents, an optional menu will display on the screen



1. Increase; Decrease; Move up; Move down

vi. When at answering or monitoring state, a menu will show on the right of the screen, Right Slide can hide or play the menu

1.

2. Above buttons are：Hang up; Unlock; Call /Call Transfer; Monitor Switching; Image switching between 4:3 and 16:9; Image Capturing; Video Recording

b) At the standby state ,click or slide on the screen ,the system can enter into main menu

Multimedia menu have 12 kinds of icons

View Captured Pictures

View Recorded Video Files

View Recorded DVR Files

Play Photo Frame & Play Music

Check Recorded Messages

Show Calendar Screen

Monitor Door1

Monitor Door 2

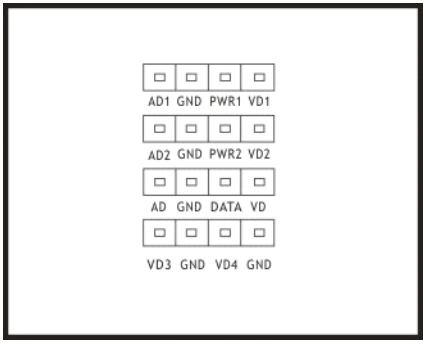
Monitor CCTV Camera

Call Other Monitors

Record Audio Messages

System Setting

The Terminal



Menu Setting Operation

No.	Setting items	Options	Note
1.1	CHIME TIME	10S/15S/20S/25S/30S/35S/40S/45S/50S/55S/60S/65S/70S/75S/80S/85S/90S/95S/100S	Chime duration time
1.2	CHIME TYPE SETTING	DOOR1 CHIME TYPE	8 chime types: from 00 to 07
		DOOR2 CHIME TYPE	
		INTERCOM CHIME TYPE	
		RINGE TONE REPEAT	Ring tone will repeat when the option is ✓
1.3	AUTO CAPTURE QUANTITY	DISABLE ✗	Do not capture images automatically
		1	Automatically capture 1 image when someone presses the outdoor bell.

		2	Automatically capture 2 images when someone presses the outdoor bell.
		3	Automatically capture 3 images when someone presses the outdoor bell.
1.4	COPY FILE TO SD CARD	CANCEL	
		COPY	
1.5	DVR SETTING	DVR ENABLE	
		BEGIN TIME	The time when DVR starts working.
		END TIME	The time when DVR ends working.
		FRAME RATE	
		RESOLUTION	
		RECORD LOCATION	
1.51	DVR ENALBE		The DVR will start working at the BEGIN TIME.
1.52	BEGIN TIME	HOUR:MINUTER	
1.53	END TIME	HOUR:MINUTER	.
1.54	FRAME RATE	1/2/5/10 FRAME/S	Related with SD card capacity,
1.55	RESOLUTION	320*240	Related with SD card capacity
		640*480	
1.56	RECORD LOCATION	DOOR1	Record from Door1 camera.
		DOOR2(optional)	Record from Door2 camera. (Only valid when Doorbell 2 connected and Port2 state set as

			Door2.)
		CCTV1(optional)	Record from CCTV1 (CCTV1 must be connected)
		CCTV2(optional)	Record from CCTV2 (CCTV2 must be connected)
1.57	SCREEN SAVER TIME	NEVER/05/10/15/20/25/30/35/40/45/50/55/60 MIN	The screen will be off when the set screen saver time arrives.
1.6	AUTO LEAVING MESSAGE		The system will ask visitor to leave message if no one answers after the chime time.
			The system will turn off if no one answers after chime time.
1.7	DEVICE ADDRESS	ROOM1/2/3/4	The option will be red if two monitors set the same address
1.8	PORT2 STATE	DOOR2	
		CCTV3	
1.9	SYSTEM TIME SETTING	DATE: YEAR-MONTH-DAY	
		TIME: HOUR:MINUTER:SECOND	
2.0	ALARM CLOCK SETTING	ALARM CLOCK 1	1. Each alarm clock can be set separately. 2. Since set time, it will alarm every 50 seconds till you turn the alarm clock off by press
		ALARM CLOCK 2	
		ALARM CLOCK 3	
		ALARM CLOCK 4	
		ALARM CLOCK 5	
		ALARM CLOCK6	
		ALARM CLOCK CHIME TYPE	8 types: from 00 to 07
2.01	CLOCK1 SETTING	STATE	

		CYCLE TYPE	4 types available
		WEEK SELECT	Only valid at Week Type.
		TIME	
		DATE	
2.011	STATE		
			The alarm will trigger at the set time.
2.012	CYCLE TYPE	SINGLE	Alarm once at the set time.
		WEEK	Alarm on the chosen days every week.
		MONTH	Alarm on the chosen day every month.
		YEAR	Alarm on the chosen day every year.
2.013	WEEK SELECT	SUNDAY	You can set each day's state as enable/disable to create an alarm group you like.
		MONDAY	
		TUESDAY	
		WEDNESDAY	
		THURSDAY	
		FRIDAY	
		SATURDAY	
2.014	TIME	HOUR:MINUTER	
2.015	DATE	YEAR-MONTH-DAY	1.At Single Type, YEAR,MONTH and DAY are all valid 2.At Week Type, all options are invalid 3.At Month Type, only DAY is valid 4.At Year Type, only MONTH and

			DAY are valid
2.1	SYSTEM FORMAT	FORMAT FLASH	
		FORMAT SD CARD	
2.2	PROGRAM VERSION	2.96	
2.3	BACKGROUND IMAGE SETTING	PICTURE1/; COLOR1/2/3/4/5/6/7	
2.4	CALIBRATE THE TOUCH SCREEN		Entering the touch screen interface, click the "X "on the upper corner first, then click the lower right corner "X ", calibration will be completed.
2.5	RESTORE DEFAULT	CANCEL	
		RESTORE	The system will restore default by this operation.
2.6	LANGUAGE	ENGLISH/RUSSIAN/PERSIAN/GERMAN	

Parameters

Some parameters of picture capturing, video recording and DVR functions.

1.Picture Capturing Function

Storage location	Resolution ratio	Pictures quantity
Internal flash	320*240	Over 60pcs
External SD card	640*480	Depends on the capacity of SD card

2.Video Recording Function

SD card capacity	Resolution ratio	Frame rate
1G	320*240	2
2G	320*240	5
4G	320*240	10
>=8G	640*480	10

3.DVR Function

SD card capacity	Resolution ratio	Frame rate	Continuous video recording time
<2G	No DVR function		
2G	320*240	1	Over 24 hours
4G	320*240	1,2,5	When setting frame rate to 1,over 48 hours
8G	320*240	1,2,5,10	When setting frame rate to 1,over 96 hours
>=16G	320*240or640*480	1,2,5,10	When setting frame rate to 1,over 192 hours

Video recording time will be different when the recording content is different,(In the worst situation, a 2G card can record pictures of 320*240 resolution ratio at 1 frame per second for 28 hours, In the best situation, the recording time can be over 72 hours.)

Time parameter	
Items	**Time and note**
Longest duration time for monitoring listening	8 hours
Longest duration time for monitoring outdoor bell	2 minutes
Longest duration time for viewing CCTV	8 hours
Longest duration time for answering the visitor's call	1 minute
Viewing pictures	The screen will turn off if no operation within 10 minutes.
Viewing calendar and time	The screen will not turn off automatically.
Longest duration time for manual audio recording	10 minutes
Longest duration time for manual video recording	10 minutes
Automatically refreshing time when viewing pictures	5 seconds
Duration time for alarm clock	10 seconds
Time interval for repeating alarming	1 minute
Time for automatically turning off the system when no operations taken	1 minute
Time for automatically turning off the visitor's call from outdoor bell	1 minute
Shortest chime time	10 seconds
The time for turning to DVR recording from standby state	10 seconds
The time for turning to DVR recording from calendar and time screen	2 minutes

If users record the system tone in their own language and copy it into the SD card, we suggest each file be less than 400 KB(the duration time be less than 20 seconds), otherwise, when the system format SD card, the files would be deleted.

HOW TO LEAVE MESSAGES FROM DOORBELL(S)?

This model also allows your visitors to leave message for you when no one is at home.

1. Go to SYSTEM SETTINGS to make the AUTO LEAVING MESSAGE to be ENABLE Mode. Operations as below:

Go into menu. Slip to the AUTO LEAVING MESSAGE line , please change the option to be .

2. When a visitor presses doorbell, no one to answer, after chime Time, a voice from doorbell will say “Hello, no one is at home at the moment, please leave a message after the tone”. Now the visitor has 30 seconds to leave message from your outdoor bell. A word RECORDING will show on the monitor. 20 seconds later, another voice from doorbell will say, “The recording is over, thank you”, the words RECORDING IS OVER will show on the monitor.

HOW TO CHANGE ATTENTION TONE FOR LEAVING MESSAGE?

Hosts can change the attention messages with their own languages, and two ways can achieve it:

Method One:

Go to in MULTIMEDIA MANAGER, and record one audio messages in your own language. Then back to MULTIMEDIA MANAGER, click to enter the folder, click the audio file you recorded, and right slide at the bottom of the screen, a menu will show under the screen as follow pic:

Click to enter into CONFIG ATTENTION TONE. Then change the TONE TYPE to be USER TONE, and up slip to turn the PLAY TYPE option to BEGINNINGTONE, then slip again to ATTENTION TONE VOLUME line, and change the volume. Finally press the

ACT to confirm the setting. Now the beginning attention tone will be the one your recorded. Same operation to set the end tone.

Method Two:

Setting the ATTENTION TONE with computer. Record 2 audio file in mp3 format in your own language, and rename their names to be Beginningtone.mp3(tell the visitors that the host is not in, please leave messages) and Endingtone.mp3 (thanks for the visitors leaving messages). Insert the SD card into the computer, create a new folder in the SD card and rename its name as “Attention Tone”, copy the two recorded files BeginningTone.mp3 and EndingTone.mp3 into the folder. Then insert the SD card back to the monitor, restart the monitor and the attention tone would be what you have recorded now.

Note: If users record the system tone in their own language and copy it into the SD card, we suggest each file be less than 400 KB(the duration time be less than 20 seconds), otherwise, when the system format SD card, the files would be deleted.